

Title (en)
CONTROLLABLE CAB SUSPENSION

Title (de)
REGELBARE AUFHÄNGUNG FÜR EIN FAHRERHAUS

Title (fr)
SUSPENSION CONTROLABLE POUR CABINE DE VEHICULE

Publication
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Application
EP 98926321 A 19980611

Priority
• US 9811599 W 19980611
• US 87665697 A 19970613

Abstract (en)
[origin: WO9856642A1] A controllable secondary suspension system (20) for vehicle cabs (18) and the like which flexibly suspends and controls movement of the vehicle's cab (22) relative to the vehicle's frame (24). The system (20) includes at least one flexible support (26), which are preferably two spaced-apart air springs flexibly suspending the cab (22) relative to the frame (24), at least one controllable fluid damper, and preferably two spaced-apart controllable fluid dampers, such as Magnetorheological (MR) fluid dampers (28, 28'), interconnected between the cab (22) and the frame (24). In one aspect, the system (20) may include at least one sensor, such as a relative position sensor (30), for providing relative vibration information between the cab (22) and the frame (24), and a controller (36) for processing the relative vibration information to determine current to be supplied to the controllable fluid damper (28) to control the degree of damping thereof. Signals from additional sensors, such as a speed sensor (32), steering angle sensor (34), brake sensor (46), throttle position sensor (48), and vertical and lateral acceleration sensors (40, 44) may be used to enhance control. Roll, pitch, lurch and ride may be simultaneously or independently controlled.

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